MEASUREMENT BOOK

Main-bill:

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of Work:-	Modified estimate for the improvements to roads and drains near Meese hanumantha ppa house area, Amruthahalli in Ward 7 Byatarayanapura, Kodigehalli sub division					
	Est cost:-	Rs. 40.00 lakhs.					
	Job Code:-	007-16-000001					
	Head of Account:-	P-308g.					
	A.S. No:-	BBMP/JC/YNK/PR/15/15-16; dt: 20-08-15					
	T.S. NO:-	BBMP/CE/YNK/PR/27/15-16; dt. 21-08-15					
	Agr. No:-	BBMP/YNK/EE/BTP/Agr/341/15-16; dt: 30-3-16					
	Work order:-	NO. BBMP/EE/BTP/WO/341/15-16, dt: 30-03-16					
	Date of completion:-	30-07-16					
	Date of recording:-	30-07-16					

BR-377
30-7-16

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wor
1	2
	Item NO.01:- Removing B.S specifications and di Qty vide pa At the rat
	Item NO.03:- Earthwork exc average horizontal excavated surfac

K

epth 6	Contents 7	Reference to last Measurement 8
	for the improvements to s near Meese hanumantha Amruthahalli in Ward 7 Kadigehalli sub division	
		5/15-16; dt: 20-08-15
		-7/15-16; dt. 21-08-15
		/ Agr/341/15-16; dt: 30-3-16
		00/341/15-16; dt: 30-03-16

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To..... 263413
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Item No. 01:-						
	Removing B.S. slab of drain and stacking etc, complete as per specifications and directions of engineer in-charge of works:						
	Qty vide page No. 2635/263402 →					435.60 cum.	
	At the rate of Rs. 58.32 →						25404.00
	Item No. 03:-						
	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	earth to be levelled neatly after breaking of clods:						
	Qty vide page No. 2635/15-16		263404 →			629.78 cum	47611.00
	At the rate of Rs: 75.60 →						
	Item No. 13:-						
	Lead for disposal of debris shall be payable at carriage rates by Mechanical means including loading & unloading etc, complete as per specifications and directions of engineer in charge of the work:						
	Qty vide page No. 2635/263404 →					629.78 cum	44084.00
	At the rate of Rs: 70.00 →						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No. 02:-
	Refixing stone s
	as per specifications
	Qty vide page
	At the rate of
	Item No. 04:-
	Scarifying the
	50mm and disposal of
	scarified material

Contents 7	Reference to last Measurement 8
of elods:	
→ 629.78 cum	47611.00
payable on carriage	
ing & unloading etc,	
ons of engineer in	
→ 629.78 cum	44084.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 263414

Serial No. ..... From..... To.....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.02:- Refixing stone slabs of drains and pointing in CM (1:3) etc, complete as per specifications and directions of engineer in charge of work:						
	Qty vide page No. 2635/263405/ →					347.40 sqm.	26263.40
	At the rate of Rs: 75.60 →						
	Item No.04:- Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material within all lifts and leads upto 1000m complete						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	as per specifications:						
	Qty vide page No. 2635/263406 →					764.00 sqm	
	At the rate of Rs. 18.36 →						14027.00
	Item No 05:-						
	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, tion of machinery complete as per specifications:						
	Qty vide page No: 2635/263407 →					764.00 Sq.m.	
	At the rate of Rs: 4.48 →						3422.70

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No 06:-
	Providing and
	in foundation with
	not less than 20 cm h
	including cost of ma
	Qty vide page
	At the rate

th	Contents 7	Reference to last Measurement 8
4·00 sqm		14027·00
maximum of 6 passes		
lling in depression		
l labour, item of		
764·00 sq.m.		3422·70

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 263415

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No. 08:-						
	Providing and constructing granite/trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cm high, bond stones at two apart in each course including cost of materials, labour, curing. as per specifications.						
	Qty vide page No: 2635/263407 → 36·00 cum						
	At the rate of Rs: Qty upto 125% → 3836·16 →						69051·00
	Qty above 125% → 3934·76 →						70825·00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No. 06:- Providing and laying in position plain cement concrete of M10 with OPC cement @ 180kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum concrete laid in layers not exceeding 15cms, thick well compacted, in foundation and plinth, including cost of all materials, labour, HOM of Machinery curing etc.,						
	Qty vide page No. 2635/26340 @ 176.43 cum						
	At the rate of Rs: Qty upto 125% →					121.05 x 5000.00 = 605250	
	Qty above 125% →					55.38 x 4982.93 = 275955	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	Item No. 12:- Providing T.M.T steel straightening, cutting, ben or welding wherever requi the adjoining members w hooks and wastage sh materials, labour, HOM of	
	Qty vide page No:	
	At the rate of Rs:	

Depth 6	Contents 7	Reference to last Measurement 8
	cement concrete of 1:1:0	
	own size graded granite	
	ine aggregate @ 0.57 cum	
	ms, thick well	
	ing cost of all	
	ing etc,	
	176.43 Cum	
	121.05 x 5000.00 = 605250	
	55.38 x 4982.93 = 275955	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263416

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Item No 12:-						
	Providing T.M.T steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, hire of machinery:						
	Qty vide page No: 2635/263411 →				10.0 tonne		
	At the rate of Rs: 76000.00 →						760000.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No. 07:- Providing and removing, centering, shuttering, strutting, propping etc., and removal of form works for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications:						
	Qty vide page No. 2365/2634/2/→					1163.26 Sqm	
	At the rate of Rs: 236.52 →						275135.00
	Item No. 09:- Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nur
1	2	
	Laid in 15cm thick laye curing etc, including sm etc., including smooth fi Complete (exclusive of cost Ready mixed concrete fo M-20 (1:1.5:3) (cement Rcc-drain bottom:- 1st cross road:-	

OK

Depth 6	Contents 7	Reference to last Measurement 8
	shuttering, strutting,	
	for foundations, footings,	
	uding cost of all	
	fications:	
	1163.26 Sqm	275135.00
	oncrete using 20mm and	
	concrete for RCC works	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263417

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	laid in 15cm thick layers and well compacted including, vibrating curing etc, including smooth finish in CM 1:3, with all lead and lift etc., including smooth finish in CM 1:3, with all lead and lift etc., complete (exclusive of cost of steel, fabrication and plastering charges) Ready mixed concrete for beams, columns, staircase and roof with M-20 (1:1.5:3) (cement - 3320 kg/cum						
	Rec-drain bottom:-						
	1st cross road:-	2.00	30.00	0.90	0.15	= 8.10	
		2.00	14.00	0.90	0.15	= 3.78	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2nd cross:-	01.00	24.00	0.90	0.15	= 3.24	
		2.00	24.00	0.90	0.15	= 6.48	
	Haluhanumanthappa	2.00	30.00	0.90	0.15	= 8.10	
		2.00	30.00	0.90	0.15	= 8.10	
		2.00	30.00	0.90	0.15	= 8.10	
		2.00	15.00	0.90	0.15	= 4.05	
						49.95 cum.	
	Side-Walls:-	04	30.00	0.15	0.75	= 13.50	
		04	14.00	0.15	0.75	= 6.30	
		2	24.00	0.15	0.75	= 5.40	
		04	24.00	0.15	0.75	= 10.80	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Culvert slab:-
	Road:-
	Haluhanumanthappa house road:

Contents 7	Reference to last Measurement 8
= 3.24	
= 6.48	
= 8.10	
= 8.10	
= 8.10	
= 4.05	
49.95 cum.	
75 = 13.50	
75 = 6.30	
75 = 5.40	
75 = 10.80	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263418

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		04	30.00	0.15	0.75 =	13.50	
		04	30.00	0.15	0.75 =	13.50	
		04	30.00	0.15	0.75 =	13.50	
		04	15.00	0.15	0.75 =	6.75	
						83.25 cum.	
	Culvert slab:-	08	5.00	1.80	0.23 =	16.56 cum:	
	Road:-						
	Haluhanumanthappa house road:	01	30.00	4.00	0.15 =	18.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Office Memo 30/7/16						
	1st cross:-	01	30.00	4.00	0.15 =	18.00	
		01	30.00	4.00	0.15 =	18.00	
		01	15.00	4.00	0.15 =	9.00	
		01	30.00	4.00	0.15 =	18.00	
		01	14.00	4.00	0.15 =	8.40	
	2nd cross:-	01	24.00	3.00	0.15 =	10.80	
		01	24.00	4.00	0.15 =	14.40	
						114.60 cum.	
	Pot hole filling:-	01	7.60	2.00	0.15	2.10 cum	
				TOTAL:		266.43 cum	
	At the rate of Rs: 5400.00		Rs 14.N.D				1438722.00

AE(NH)

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No.10:-
	Vaccum - de- wate
	compaction with skin
	Cost of generator, +10
	Hoater, blade and di
	Halluh anumanthappa
	road:

BOOK

ns		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
60	0.15 =	18.00	
.00	0.15 =	18.00	
00	0.15 =	9.00	
.00	0.15 =	18.00	
.00	0.15 =	8.40	
.00	0.15 =	10.80	
.00	0.15 =	14.40	
		114.60 cum.	
.00	0.15	2.10 cum	
L:		266.43 cum	1438722.00
N.D			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To..... 263419
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Item No.10:-						
	Vaccum - de- watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, screed vibratory, power floater, blade and disc. etc, with all lead and lift:						
	Halluhanumanthappa road:	01	30.00	4.00	-	= 120.00	
		01	30.00	4.00	-	= 120.00	
		01	30.00	4.00	-	= 120.00	
		01	15.00	4.00	-	= 60.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1st cross:-	01	30.00	4.00	-	= 120.00	
		01	14.00	4.00	-	= 56.00	
		01	24.00	3.00	-	= 72.00	
		01	24.00	4.00	-	= 96.00	
						764.00 Sq.m.	
	At the rate of Rs: 97.20						74261.00
						Asstt. W.N.D AE (W)	
	Item. No. 11.-						
	Providing groove cutting for width of 5mm to 10mm and depth 85mm-100mm including cost of cutting machine, generator and HOM of machinery, including cost of blade, coolant etc, including						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3
	Cleaning of groove and fillet metal etc., including lead and lift charges and drawing and as per spec	
	Roads:-	05
		03
		03
		11

K

epth 6	Contents 7	Reference to last Measurement 8
	= 120.00	
	= 56.00	
	= 72.00	
	= 96.00	
	764.00 Sqm.	
y.N.D E(W)		74261.00
5mm to 10mm and depth		
ne, generator and , coolant etc, including		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 263420

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Cleaning of groove and providing sand and hot bitumen fillars & filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specification:						
	Roads:-						
		05	4.00	-	20.00		
		03	3.00	-	9.00		
		03	4.00	-	12.00		
		11	4.00	-	44.00		
				TOTAL	85.00 m		

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	At the rate of Rs:	Qty upto 125% →			79.50 × 124.20 =		9874.00
		Qty above 125% →			5.50 × 118.18 =		650.00
					GRAND TOTAL =		3730011.00
							37,40,535 ≈

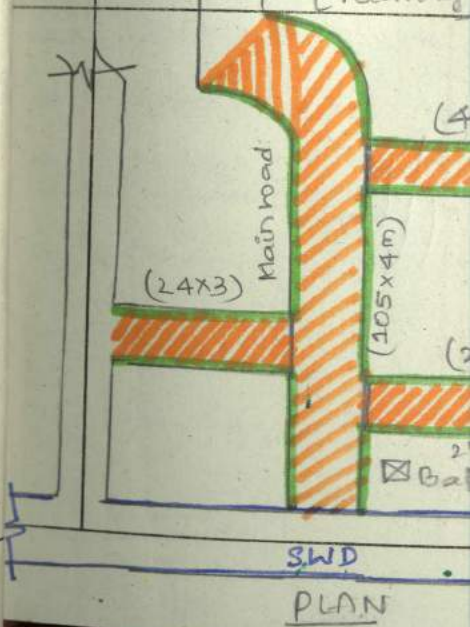
M.N.D
AE (W7)
30/7/16

30/7/16

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of work
1	2 [Turning



PLAN

OOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
→	79.50 x 124.20 =	9874.00	
→	5.50 x 118.18 =	650.00	
	D TOTAL =	3730011.00	
		37,40,535 ≈	

M.L.N.D
AE (NT)
30/7/16

Executive Engineer,
Sub Division,
ne, B.B.M.P.,
lore.

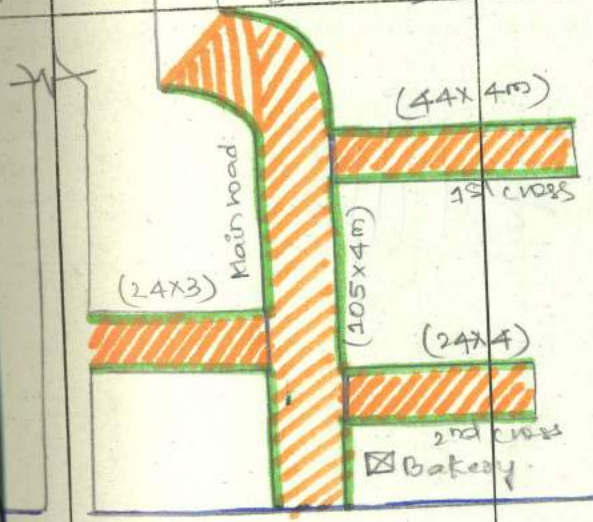
M. A. R. 57 (Rule 116)
Measurement Book

No. B

263421

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	[Turning]						



INDEX
- Rcc-drain
- ce-road
- culverts

M.L.N.D
AE (NT)

SWD

PLAN

Assistant Executive Engineer,
Kadugodi Sub Division,

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CERTIFICATE: –						
	1) Certified that the work done by the contractor is satisfactory.						
	2) Certified the debris has been removed from the work spot.						
	Mahantesh.N.D AE(W7)						

Assistant Engineer,
Kodigehalli Sub-Division, B.M.P.,
Yelahanka, Bangalore.

Serial No. Royalty-ch
Name of Work
Name of Contractor of nature of
Date of commencement of work

Date	Full description, etc, of
1	2
Sl.No.	Details/Qty/Cu
01	40mm ↓ - 176.43
02	20 mm ↓ - 264.36
	TOTA
	ABSTRACT: – coarse Aggrega fine Aggregate Mahantesh.N.D AE(W7)

OOK

	Depth 6	Contents 7	Reference to last Measurement 8
			contractor is satisfactory.
			d from the work spot.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. Royalty charges: 263422

Name of Work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Sl.No. Details Qty/cum:		Jelly	& sand		Cement	
		co-eff	Qty	co-eff	Qty	co-eff	Qty.
01	40mm↓ - 176.43 - cum	0.96	169.37	0.48	84.68	-	-
02	20 mm↓ - 264.36 - cum	0.90	237.92	0.45	118.96	-	-
	TOTAL		407.29		203.64		
	ABSTRACT: -						
	coarse Aggregate: 407.29 x	108 =	43987 = cu				
	fine Aggregate: 203.64 x	103 =	20973 = cu				
			64960 = cu				

M Hallikeri. N.D
AE(W4)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	37405.31=00 293134=00 34,47,401=00 14/11/16					I.Bill - 37405- Jet 149629- Lwc 3740- CBR - 3741- Roj - 6496 293134- Cl 34.47.401-	

Serial No. First and final bill:
Name of Work .....
Name of Contractor of nature of Agency ...
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Name of Work:- Job sheet:- Aggreement no:- Work order No:- A.S. No:- T.S. No:- Date of completion:-

Date of recording:-